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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/627,801	07/28/2000	Roy V. Leverenz	TAM-1629DIV2	3910
75	90 06/09/2004		EXAM	INER
Patrick J Vices	aro		TURNER, A	RCHENE A
Allegheny Tech	nologies Incorporated			
1000 Six PPG Place			ART UNIT	PAPER NUMBER
Pittsburgh, PA 15222			1775	

DATE MAILED: 06/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$\overline{}$
	09/627,801	LEVERENZ ET AL.	`
Office Action Summary	Examiner	Art Unit	
<u> </u>	Archene Turner	1775	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mealing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum staturary period w Failure to reply within the soft or setted period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.7040.	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 01 M	arch 2004.	,	
	action is non-final.		
Since this application is in condition for alloward closed in accordance with the practice under E	ice except for formal matters, pro		
·	x parte quayle, 1900 C.D. 11, 40	0.0.5.210.	
Disposition of Claims			
4) Claim(s) 50,52-59 and 61-65 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 50,52-59 and 61-65 is/are rejected. 7) Claim(s) is/are objected to.	vn from consideration.		
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examinel 10)☐ The drawing(s) filed on is/are: a)☐ acce		Evaminar	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correcti			1.
11)☐ The oath or declaration is objected to by the Ex			,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da	(PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date		atent Application (PTO-152)	

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 50,52-59,61-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (5,700,518) or Puiia et al (5,674,620) or Feistritzer et al (5,415,674) or Saijo et al (5,204,167).

Lee et al or Puiia et al or Feistritzer et al or Saijo et al disclose a diamond coated tungsten carbide tool, wherein the substrate has been etched to take out the binder from the surface to improve bonding of the coating. They do not explicitly disclose the claimed thickness of the surface layer. It would have been obvious to one of ordinary skill in the art to provide the surface layer with the claimed thickness, as one of ordinary skill in the art would know to balance the thickness with the improved adhesion. Even though the coating provided on the claimed substrate is diamond in the references, one of ordinary skill in the art would know that this improvement of bonding could be applied to known coatings, like the claimed ordering.

3. Claims 50,52-59,61-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svensson (5,380,408).

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Svensson discloses coating a tungsten carbide tool, wherein the substrate has been etched to take out the binder from the surface to improve bonding of the coating. He does not explicitly disclose the claimed thickness of the surface layer. It would have been obvious to one of ordinary skill in the art to provide the surface layer with the claimed thickness, as one of ordinary skill in the art would know to balance the thickness with the improved adhesion. Svensson does not explicitly disclose the claimed coating, but the claimed ordering of the coating is well known in the art, and one of ordinary skill would know to provide the claimed coating on the substrate of Svensson.

- 4. Applicant's arguments with respect to claims 50,52-59,62-65 have been considered but are moot in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Archene Turner whose new telephone number is (571)

272-1545. The examiner can normally be reached on Monday through Wednesday, and

Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Please remember to include on the fax, the art unit 1775, serial number and Examiner's

name.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner
Primary Examiner

**Group 1700** 

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